

(1) GENERATOR NAME Umetco Minerals Corporation
ADDRESS 137 - 47th Street
CITY Niagara Falls STATE New York
CONTACT G.E. Walck PHONE (716) 278-3361

BARNWELL WASTE MANAGEMENT FACILITY
Operated by CHEM NUCLEAR SYSTEMS, INC
P O Box 726, Barnwell, South Carolina 29812
(803) 259 1781
RADIOACTIVE SHIPMENT MANIFEST FORM

(2) consigned to
CHEM NUCLEAR SYSTEMS, INC
P O BOX 726 OSBORN ROAD
BARNWELL SC 29812

(3) USE THIS NUMBER ON
ALL CONTINUATION PAGES

VOLUME ALLOCATION NO
1184-117-A PAGE 1
OF 2

(4) Tri-
CARRIER State ADDRESS Joplin, Missouri 64801
TELEPHONE 417-624-3131 SHIPPING DATE November 6, 1984
SHIPMENT TYPE Van SHIPMENT SURFACE EXPOSURE 070 mR/hr
SHIPMENT NO 615-30137 LINER SERIAL NO —
DRIVER SIGNATURE Richard B. Jones DATE 11-7-84

(5) TOTAL FOR EACH CLASS		PROPER SHIPPING NAME & HAZARD CLASS (PER 49 CFR 172.101)	ID NUMBER
NO OF PACKAGES	WEIGHT (Pounds)		
		Radioactive Material, empty packages	UN2908
		Radioactive Material, fissile, n o s —Radioactive Material	UN2918
10	4344.7	Radioactive Material, low specific activity, n o s —Radioactive Material	UN2912
		Radioactive Material, n o s —Radioactive Material	UN2982
		Radioactive Material, limited quantity, n o s —Radioactive Material	UN2910
		Radioactive Material, special form, n o s —Radioactive Material	UN2974
		Radioactive Material, instruments and articles—Radioactive Material	UN2911
		Other (Specify)	

(6) SHIPMENT TOTALS							
VOLUME (Cubic Feet)	TOTAL NO OF PACKAGES	ACTIVITY (LCFR 20.311)					SOURCE (Pounds)
		Curies X Millicuries					
		ALL ISO TOPES	TRITIUM	C 14	Tc 99	I 129	
650	10	0.068	NP	NP	NP	NP	10

(7) TOTAL SNM	
ISOTOPE	GRAMS
U 233	N/A
U 235	
TOTAL	✓

(9) WASTE DESCRIPTION Contaminated Soil
Misc Debris (10) PHYSICAL FORM/
SOLIDIFICATION AGENT Solid

(11) CHEMICAL FORM AND
NAME AND % OF CHELATING AGENT(S) Metal Oxides

(12) WASTE FORM CLASS
☒ A ☐ B ☐ C

(13) (X) Yes () No THIS VEHICLE IS CONSIGNED EXCLUSIVE USE LOADING AND UNLOADING MUST BE ACCOMPLISHED BY CONSIGNOR OR CONSIGNEE OR HIS DESIGNATED AGENT

(14) IMPORTANT This is to certify that the above named materials are properly classified described packaged marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation

Signature G.E. Walck
Company Umetco Minerals Corporation Date 11/6/84

(15) Certification is hereby made to the South Carolina Department of Health and Environmental Control that this shipment of low level radioactive waste has been inspected in accordance with the requirements of South Carolina Radioactive Material License No 097 as amended and the Nuclear Regulatory Commission's License No 12 13536 01 as amended and the effective Barnwell Site Disposal Criteria within 48 hours prior to shipment and further certification is made that the inspection revealed no items of non compliance with all applicable laws rules and regulations

Date 11/6/84 By G.E. Walck
Title and Organization Construction Superintendent - Umetco Minerals Corp.
Telephone No (716) 278-3361

- ☒ This material meets all license requirements
☒ This material was disposed of in accordance with license
☐ Discrepancy

NOV 14 1984

Date 11-9-84
Authorized Signature [Signature] Title HP Tester

UCCNHT0002712

BARNWELL WASTE MANAGEMENT FACILITY
 Operated by CHEM NUCLEAR SYSTEMS, INC

GENERATOR NAME Umetco Minerals Corporation

USE THIS NUMBER ON VOLUME ALLOCATION NO
 ALL CONTINUATION PAGES 1184 -117-A

CONTINUATION SHEET

PAGE 2 OF 2

(16) ITEM NO	(17) RADIO NUCLIDE EACH CONTAINER	(18) PERCENT OF ACTIVITY EACH NUCLIDE	(19) ACTIVITY EACH CONTAINER (mCi)	(20) PHYSICAL FORM	(21) CHEMICAL FORM AND NAME & OF CHELATING AGENT	(22) WASTE DESCRIPTION	(23) WASTE FORM CLASS	(24) STABILITY CLASS (S-U)	(25) SPECIAL NUCLEAR MATERIAL (grams)	(26) SOURCE MATERIAL (pounds)	(27) DISPOSABLE CONTAINER WEIGHT (pounds)	(28) DISPOSABLE CONTAINER VOLUME (Cu Ft)	(29) CONTAINER TYPE	(30) RADIATION LEVELS (CONTAINER (1) SURFACE (1) MLTIR to R/4HR mR/1HR Alpha Beta Gamma)	(31) CONTAMINATION CONTAINER SURFACE (DPM/100cm²) Alpha Beta Gamma	(32) DOT SUB TYPE (A1 A2 LSA etc)	(33) FISSILE CLASS	(34) LABELS/ MARKINGS USED
UM84																		
198	U-238	N/A	.0028	Solid			A	U	N/A	0 1	4112	65		044 .016	<MDA <MDA	LSA	N/A	Radioactive— LSA
	TH-232		.004															Radioactive—
199	U-238		.0028							0 1	4477	65		036 .014	<MDA <MDA	LSA	N/A	Radioactive— LSA
	TH-232		.004															Radioactive—
204	U-238		.0028							0 1	4306	65		060 .016	<MDA <MDA	LSA	N/A	Radioactive— LSA
	TH-232		.004															Radioactive—
205	U-238		.0028							0 1	4502	65		030 .010	<MDA <MDA	LSA	N/A	Radioactive— LSA
	TH-232		.004															Radioactive—
210	U-238		.0028							0 1	4248	65		.030 .012	<MDA <MDA	LSA	N/A	Radioactive— LSA
	TH-232		.004															Radioactive—
215	U-238		.0028							0.1	4182	65		046 .014	<MDA <MDA	LSA	N/A	Radioactive— LSA
	TH-232		.004															Radioactive—
216	U-238		.0028							0 1	4466	65		028 .012	<MDA <MDA	LSA	N/A	Radioactive— LSA
	TH-232		.004															Radioactive—
217	U-238		.0028							0.1	4286	65		.030 .015	<MDA <MDA	LSA	N/A	Radioactive— LSA
	TH-232		.004															Radioactive—
218	U-238		.0028							0 1	4474	65		028 .012	<MDA <MDA	LSA	N/A	Radioactive— LSA
	TH-232		.004															Radioactive—
219	U-238		.0028							0 1	4394	65		.030 .012	<MDA <MDA	LSA	N/A	Radioactive— LSA
	TH-232		.004															Radioactive—
																		Radioactive—
																		Radioactive—
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																		Radioactive—
																		Radioactive—
PAGE TOTALS										1 0	43447	650						Radioactive—

UCCNHT0002713

Tri-State Motor Transit Company

Carrier's No. 662583

Name of Carrier

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading

UMETCO MINERALS CORPORATION

AT ~~Marion, Ohio~~ Niagara Falls, NY 11-6, 19 84 From METALS DIVISION
UNION CARBIDE CORPORATION

For use via carrier truck under the exclusive/sole use shipments/movements

the property described below in apparent good order except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official, Southern, Western and Illinois Freight Classifications in effect on the date hereof if this is a rail or a rail water shipment or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to Chem Nuclear Systems Inc. Barnwell Management Facilities SHIPPER'S ORDER NO. CUSTOMER'S ORDER NO.

Destination Graven, Barnwell (Osborn Road) State South Carolina County Montrose Barnwell

Route _____

Delivering Carrier Tri-State Motor Transit Car or Vehicle Initials 2293 No 445147 Seal No 262527

No Packages	Kind of Package Description of Articles, Special marks and Exceptions	*Weight (Sub to correction)	†Class or Rate	Check Column	Subject to Section 7 of Conditions of applicable bill of lading if this shipment is to be delivered to the consignee without recourse on the consignor the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.
10	Radioactive Materials I.S.A. nos (650 cu. ft.)	43740			<p>(Signature of consignor)</p> <p>If charges are to be prepaid, write "Prepaid" here.</p> <p>Third Party PREPAID (See below)*</p> <p>Received \$ _____</p> <p>to apply in prepayment of the charges on the property described hereon</p> <p>Agent or Cashier _____</p> <p>Per _____ (The signature here acknowledges only the amount prepaid)</p> <p>Charges advanced _____</p> <p>\$ _____</p> <p>This shipment is correctly described</p> <p>Correct weight is _____ lbs Subject to verification by the *L.G. Evans Umetco Minerals Corp.</p> <p>P.O. Box 97 Niagara Falls, NY 14302</p>
	Radioactive Material UN-2912				
	U-Natural				
	Uranium-Thorium Residues (From Chemical Processing)				
	0.016 Max. Curies per Package. Less than one (1) pound source material - solid, metal oxide, contaminated soil, building rubble, wood and plant equipment				
	This is to certify that the above named materials are properly classified described packaged marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation				
	Signed <u>J. E. Walck</u>				
	Vehicle assigned for sole use of consignor Do not load other freight on the vehicle do not transfer in route and do not break the seal on truck				
	Carrier hereby acknowledges that prior to or at the time this shipment was offered for transportation, the shipper provided or affixed according to applicable regulations the required placards or orange panels (including prescribed identification numbers) for each hazardous material named hereon				
	Signed <u>Richard C. Jones</u>				

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

METALS DIVISION: UMETCO MINERALS CORPORATION
UNION CARBIDE CORPORATION

Shipper

Agent

Per

Per

Permanent postoffice
address of shipper
UC 326-34

G.E. Walck

UCCNHT0002714

Form RHA-PNC
(5/80)SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
Radioactive Waste Shipment Prior Notification and Manifest Form

See Reverse Side for Instructions

1. Name and Address of Shipper. Umetco Minerals Corporation 137 - 47th Street Niagara Falls, NY 14302		2. Person Responsible for Radioactive Waste Shipment. (a) Name G.E. Walck (b) Title Construction Superintendent (c) Telephone No (716) 278-3361	
3. Radioactive Waste Transport Permit No. 0211-31-84-X		4. Shipment Identification No.: 1184-117-A	
5. Location from which waste will be shipped Same as (1) above		6. Name and Address of Consignee Chem-Nuclear Systems, Inc. P.O. Box 726 Barnwell, South Carolina 29812	
7. Scheduled Date of Departure of Shipment. November 6, 1984		8. Estimated Date of Arrival of Shipment November 8, 1984	
9. Carrier Tri-State Motor Transit	10. Type of Transport Vehicle Closed Van	11. Trailer No. and Owner (if available)	
12. Routes shipment will follow in State of South Carolina (Be Specific): I-20, I-26, US-321, S.C. 3 and S.C. 64			

Manifest Summary

13. Type Container or Cask Wood Boxes	14. Container Spec. CFR 49 173.392 (c)	15. Total No. of Containers 10																				
16. Waste Description, Physical and Chemical Form Contaminated Soil, Metal Oxides, Bldg. Rubble, Wood and Plant Hardware	17. Prominent Radionuclides Uranium (Nat.) .0028 Thorium (Nat.) .004																					
18. Total Curies (mCi) .068	19. Transport Group III	20. Total Cubic Feet 650																				
21. Waste Classification																						
<table border="0"> <tr> <td><input checked="" type="checkbox"/> Radioactive LSA</td> <td><input type="checkbox"/> Bulk LSA</td> <td>Normal Form</td> <td>Special Form</td> <td>Pissile</td> </tr> <tr> <td><input type="checkbox"/> Radioactive LSA greater than Type A quantities</td> <td><input type="checkbox"/> Limited quantities and radioactive devices</td> <td><input type="checkbox"/> Type A quantity</td> <td><input type="checkbox"/> Type B quantity</td> <td><input type="checkbox"/> Class I</td> </tr> <tr> <td></td> <td></td> <td><input type="checkbox"/> Type B quantity</td> <td><input type="checkbox"/> Type B quantity</td> <td><input type="checkbox"/> Class II</td> </tr> <tr> <td></td> <td></td> <td><input type="checkbox"/> Large quantity</td> <td><input type="checkbox"/> Large quantity</td> <td><input type="checkbox"/> Class III</td> </tr> </table>			<input checked="" type="checkbox"/> Radioactive LSA	<input type="checkbox"/> Bulk LSA	Normal Form	Special Form	Pissile	<input type="checkbox"/> Radioactive LSA greater than Type A quantities	<input type="checkbox"/> Limited quantities and radioactive devices	<input type="checkbox"/> Type A quantity	<input type="checkbox"/> Type B quantity	<input type="checkbox"/> Class I			<input type="checkbox"/> Type B quantity	<input type="checkbox"/> Type B quantity	<input type="checkbox"/> Class II			<input type="checkbox"/> Large quantity	<input type="checkbox"/> Large quantity	<input type="checkbox"/> Class III
<input checked="" type="checkbox"/> Radioactive LSA	<input type="checkbox"/> Bulk LSA	Normal Form	Special Form	Pissile																		
<input type="checkbox"/> Radioactive LSA greater than Type A quantities	<input type="checkbox"/> Limited quantities and radioactive devices	<input type="checkbox"/> Type A quantity	<input type="checkbox"/> Type B quantity	<input type="checkbox"/> Class I																		
		<input type="checkbox"/> Type B quantity	<input type="checkbox"/> Type B quantity	<input type="checkbox"/> Class II																		
		<input type="checkbox"/> Large quantity	<input type="checkbox"/> Large quantity	<input type="checkbox"/> Class III																		

UN2912

CERTIFICATION

I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the information provided herein is complete and correct to the best of my knowledge, and that the shipper has complied with all the provisions as required by Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act.

Date October 22, 1984

G.E. Walck - Construction Supt.
Typed Name and Title of Agent of Shipper

Signature

G.E. Walck

CONSIGNEE ACKNOWLEDGEMENT

This acknowledges to the South Carolina Department of Health and Environmental Control that the above-described radioactive waste shipment was received.

Date of Delivery

Signature of Consignee or authorized Agent

Typed or Printed Name and Title

Original: S. Carolina
Copy: Chem-Nuclear

DHEC 802
(5/80)

(Copies of this form may be reproduced locally as needed)

UCCNHT0002715

General Instructions and Information

1. This form is to be used to provide the Department with prior notification of radioactive waste shipments transported into or within the State of South Carolina. This notification is to be made 72 hours before the expected date of arrival in the State. All written notices should be mailed to:
Bureau of Radiological Health
Radioactive Waste Management Section
S.C. Dept. of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201
2. A separate form shall be submitted for each radioactive waste shipment.
3. Prior notification is required of all radioactive waste shipments as defined in paragraph 2 of Interim Regulations for the Transportation of Radioactive Waste into or within South Carolina except as provided in paragraph 4.1.2 of the Regulation.
4. The "Manifest Summary" portion of this form will satisfy requirements of providing the Department with a shipping manifest, however, it does not satisfy the requirements of shipping documents which shall accompany the shipments as required by DOT Regulations and the disposal facility's license and criteria.
5. A copy of this completed form shall be provided to the carrier and all drivers of the radioactive waste shipment.
6. Upon delivery of the shipment to the consignee, acknowledgement of receipt shall be obtained, and a copy of this form and the shipper/carrier's certification form shall be returned to the Department.

Specific Instructions

Item Number

1. Self Explanatory
2. Self Explanatory
3. This item applies to all shipments of radioactive waste transported to and within the State of South Carolina.
4. Each shipment of radioactive waste shall be identified in some manner by the shipper. This number can be a radioactive shipment record number, bill of lading number, allocation number, etc. The identification number shall only be used once to identify the one shipment for which notification is being made.
5. Self Explanatory
6. Indicate in this item the disposal facility, company, organization, etc., to which this shipment has been consigned.
7. Self Explanatory
8. For through shipments, indicate in this item estimated date shipment will pass through the state.
9. Self Explanatory
10. & 11. Applies only to exclusive use, sole use, and full load shipments.
12. All routing information must be specific. You should check with carrier to insure routes you prescribe are appropriate. The carrier is responsible to inform the Department of any changes of routes in South Carolina after departure.
- thru 21. Self Explanatory

Certification: To be signed only by an authorized representative or agent of the shipper and carrier.

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
Radioactive Waste Shipment Certification Form

General Instructions and Information: This is a two part form to be used by shippers and carriers of radioactive waste. The certifications contained herein satisfy the requirements of Section 13-7-150, of Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act. This certification along with a copy of the prior notification form shall accompany each shipment of radioactive waste into and within the State of South Carolina. The shipper is to complete his portion of the form and present it to the carrier as part of the shipping documents. Upon receipt, the carrier shall complete his portion of the form. Upon delivery of the shipment to the consignee, a copy of this certification form, and a copy of the Prior Notification and Manifest form with the consignee acknowledgement, shall be returned to the Department.


Part I: Shipper's Certificate of Compliance

1. Name of Shipper and Address: Umetco Minerals Corporation 137 - 47th Street Niagara Falls, NY 14302 Telephone No. (716) 278-3361	2. Shipment Identification No. 1184-117-A
	3. Transport Permit No. 0211-31-84-X

In compliance with Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act, I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the above-named shipper has complied with all provisions of Act No. 499 of 1980, and all applicable laws and administrative rules and regulations, both State and Federal, regarding the packaging, transportation, storage, disposal and delivery of such wastes. I further certify that this shipment of radioactive waste has been inspected within 48 hours of the time of departure and that no items of non-compliance with applicable laws, rules or regulations were found.

Date November 6, 1984

G.E. Walck, Construction Superintendent
Typed Name and Title of Agent of Shipper

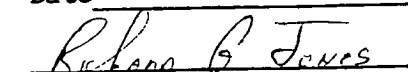

Signature


Part II: Carrier's Certification

1. Name of Carrier and Address: Tri-State Motor Transit Company P.O. Box 113 Joplin, Missouri 64801 Telephone No. (800) 641-7591	2. Shipment Identification No. 1184-117-A
	3. Transport Trailer No. 445147
4. Scheduled Date of Departure of Shipment: November 6, 1984	5. Estimated Date of Arrival of Shipment: November 8, 1984

Certification is hereby made to the South Carolina Department of Health and Environmental Control that: (a) the shipper has provided the carrier with a copy of the shipment manifest, the certificate of compliance, and the routing instructions; (b) the shipment of radioactive waste has been properly placarded for transport according to applicable U.S. Department of Transportation Regulations; (c) all shipping papers originated or reproduced by the carrier have been properly executed; (d) the transport vehicle has been inspected according to applicable State and Federal regulations within the prescribed intervals and that all safety and operational components are in good working order and meet the requirements of regulations; (e) all drivers who will operate the vehicle within the State of South Carolina are qualified to transport hazardous materials as specified by applicable U.S. Department of Transportation regulations; (f) the Department shall be immediately notified of any variance, occurring after departure, from the shipper's notification of primary routes in South Carolina and estimated date of arrival; (g) all applicable laws and administrative rules and regulations, both State and Federal, regarding the transportation of radioactive wastes will be complied with.

Date November 6, 1984


Typed or Printed Name and Title DRIVER


Signature

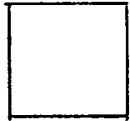
UMETCO MINERALS CORPORATION
NIAGARA FALLS, NEW YORK

DATE 11-6-84

TRACTOR NO. 8859

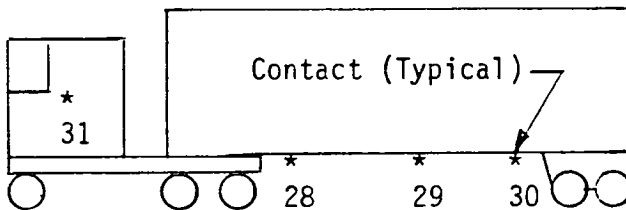
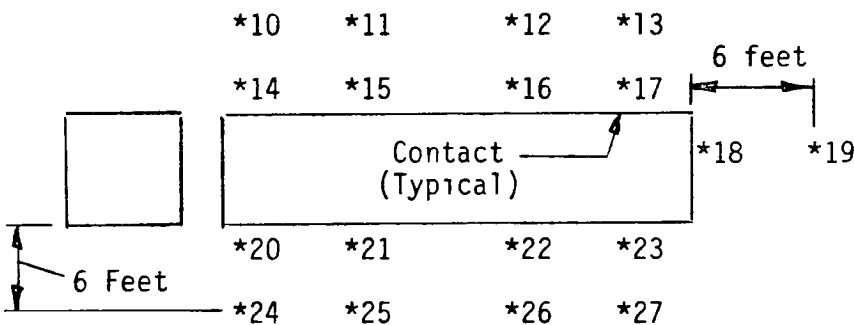
SHIPMENT NO. 615-3014

TRAILER NO. 445109



*1	*2	*3	*4
	*9		
*5	*6	*7	*8

TRUCK FLOOR SURVEY (UNLOADED)



TRUCK EXTERIOR SURVEY (LOADED)

NO.	δ	β
1	.006	20
2	.007	—
3	.010	—
4	.009	40
5	.007	40
6	.010	—
7	.010	—
8	.008	40
9	—	30
10	.012	—
11	.016	—
12	.024	—
13	.016	—
14	.020	—
15	.030	—
16	.028	—
17	.030	—
18	.026	—
19	.030	—
20	.026	—
21	.036	—
22	.042	—
23	.034	—
24	.020	—
25	.026	—
26	.028	—
27	.026	—
28	.042	—
29	.046	—
30	.046	—
31	.008	—

LEGEND:

* Location of Reading

δ = mR/hr Ludlum Model 19 (S/N 22534)

β = dpm/100 cm² Ludlum Model 15 (S/N 28886)
w/Ludlum Model 44-9 Probe (S/N 12708) - Eff. 42%

S. E. Walsh
(Survey performed by)

UCCNHT0002718

Umetco Minerals Corporation
Niagara Falls, New York

Date 10 - 3 - 84

CONTAINER SURVEY

BOX CONTROL NO. UM 84 - 198 BOX CAULKED YES
BOX BANDED YES BOX WEIGHT 4112

RADIATION SURVEY (Total)

CONTACT . 0 44 mR/hr.

3 FEET . 0 16 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A 29590

0 dpm/100cm² α

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

UCCNHT0002719

Umetco Minerals Corporation
Niagara Falls, New York

Date 10-3-84

CONTAINER SURVEY

BOX CONTROL NO. UM84-199 BOX CAULKED YES

BOX BANDED YES BOX WEIGHT 4477

RADIATION SURVEY (Total)

CONTACT .036 mR/hr.

3 FEET .014 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A 29591

0 dpm/100cm² α

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

UCCNHT0002720

Umetco Minerals Corporation
Niagara Falls, New York

Date 10-17-84

CONTAINER SURVEY

BOX CONTROL NO. UM 84-204 BOX CAULKED YES

BOX BANDED YES BOX WEIGHT 4306

RADIATION SURVEY (Total)

CONTACT .060 mR/hr.

3 FEET .016 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A 29596

0 dpm/100cm² α

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

Umetco Minerals Corporation
Niagara Falls, New York

Date 10-17-84

CONTAINER SURVEY

BOX CONTROL NO. UM 84-205 BOX CAULKED YES

BOX BANDED YES BOX WEIGHT 4502

RADIATION SURVEY (Total)

CONTACT .030 mR/hr.

3 FEET .010 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A 29597

0 dpm/100cm² α

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

UCCNHT0002722

Umetco Minerals Corporation
Niagara Falls, New York

Date 10-17-84

CONTAINER SURVEY

BOX CONTROL NO. UM 84-210 BOX CAULKED YES
BOX BANDED YES BOX WEIGHT 4248

RADIATION SURVEY (Total)

CONTACT .030 mR/hr.

3 FEET .012 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A 29602

0 dpm/100cm² α

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

UCCNHT0002723

Umetco Minerals Corporation
Niagara Falls, New York

Date 10-17-84

CONTAINER SURVEY

BOX CONTROL NO. UM 84-215 BOX CAULKED YES

BOX BANDED YES BOX WEIGHT 4182

RADIATION SURVEY (Total)

CONTACT .046 mR/hr.

3 FEET .014 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A 29607

0 dpm/100cm² \propto

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

UCCNHT0002724

Umetco Minerals Corporation
Niagara Falls, New York

Date 10-17-84

CONTAINER SURVEY

BOX CONTROL NO. UM 84-216 BOX CAULKED YES

BOX BANDED YES BOX WEIGHT 4466

RADIATION SURVEY (Total)

CONTACT .028 mR/hr.

3 FEET .012 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A 29608

0 dpm/100cm² α

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

UCCNHT0002725

Umetco Minerals Corporation
Niagara Falls, New York

Date 10-17-84

CONTAINER SURVEY

BOX CONTROL NO. UM 84-217 BOX CAULKED YES

BOX BANDED YES BOX WEIGHT 4286

RADIATION SURVEY (Total)

CONTACT .030 mR/hr.

3 FEET .015 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A 29609

0 dpm/100cm² α

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

UCCNHT0002726

Umetco Minerals Corporation
Niagara Falls, New York

Date 10-17-84

CONTAINER SURVEY

BOX CONTROL NO. UM84-218 BOX CAULKED YES

BOX BANDED YES BOX WEIGHT 4474

RADIATION SURVEY (Total)

CONTACT .028 mR/hr.

3 FEET .012 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A 29610

0 dpm/100cm² α

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

UCCNHT0002727

Umetco Minerals Corporation
Niagara Falls, New York

Date 10-17-84

CONTAINER SURVEY

BOX CONTROL NO. UM 84 - 219 BOX CAULKED YES

BOX BANDED YES BOX WEIGHT 4394

RADIATION SURVEY (Total)

CONTACT .030 mR/hr.

3 FEET .012 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A 29611

0 dpm/100cm² α

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

UCCNHT0002728

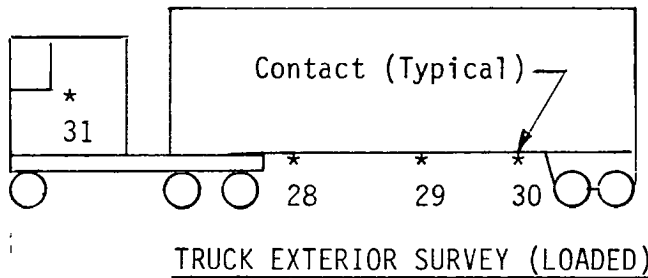
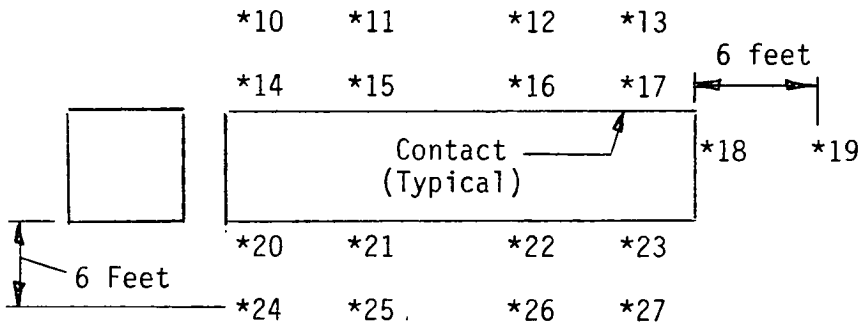
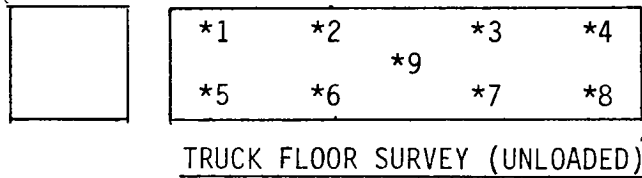
UMETCO MINERALS CORPORATION
NIAGARA FALLS, NEW YORK

DATE 11-6-84

TRACTOR NO. 2293

SHIPMENT NO. 615-3013

TRAILER NO. 445147



NO.	σ	B
1	.006	30
2	.011	—
3	.007	—
4	.008	60
5	.006	40
6	.008	—
7	.010	—
8	.008	50
9	—	40
10	.028	—
11	.026	—
12	.032	—
13	.024	—
14	.030	—
15	.040	—
16	.032	—
17	.026	—
18	.020	—
19	.020	—
20	.028	—
21	.026	—
22	.024	—
23	.020	—
24	.016	—
25	.018	—
26	.016	—
27	.014	—
28	.070	—
29	.050	—
30	.046	—
31	.011	—

LEGEND:

* Location of Reading

σ = mR/hr Ludlum Model 19 (S/N 22534)

B = dpm/100 cm² Ludlum Model 15 (S/N 28886)
w/Ludlum Model 44-9 Probe (S/N 12708) - Eff. 42%

J. E. Walsh
(Survey performed by)

UCCNHT0002729